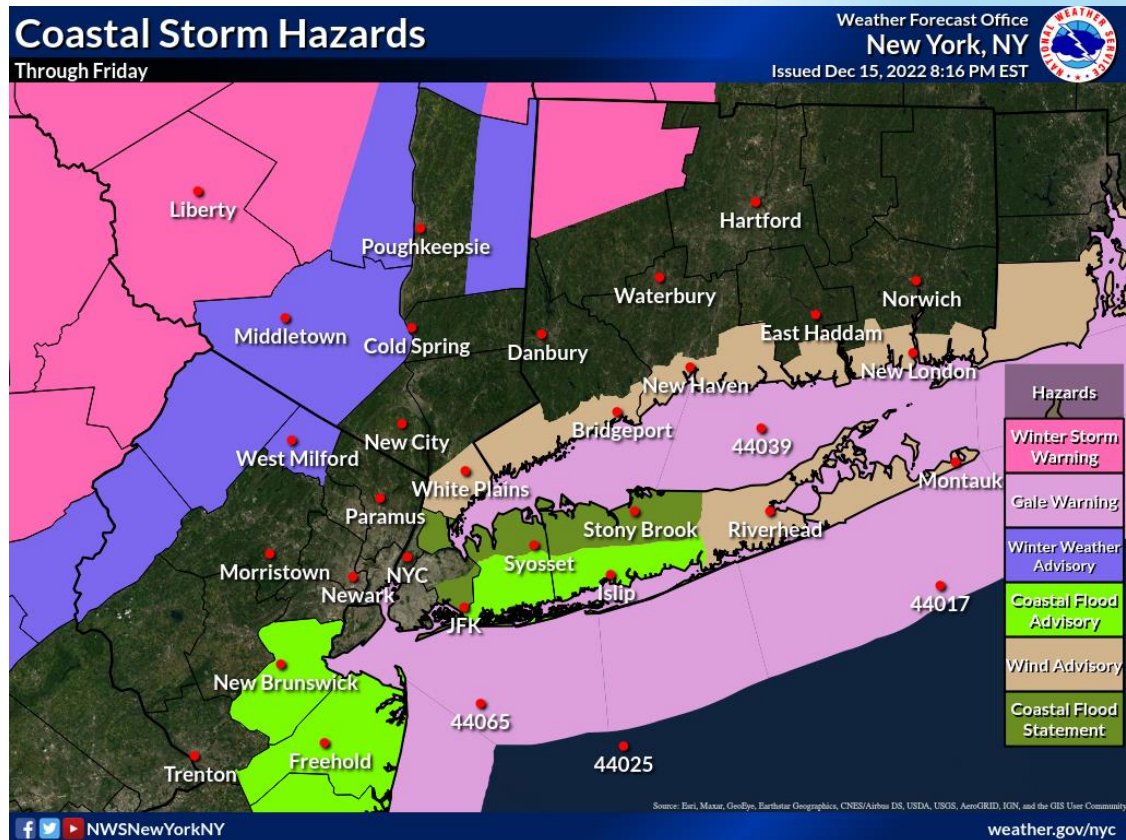


# Coastal Storm Through Friday






## Decision Support Briefing #6 As of: 8:00 PM Dec 15, 2022

### What Has Changed?

- Wind Advisories expanded. Now includes all of Coastal CT, Southern and Eastern Long Island, and Southern Westchester County.
- Coastal Flood Advisories **have just been issued** for SW Suffolk overnight, and for So. Nassau Friday Afternoon. Also, Coastal Flood Statements have been issued for So. Queens, So. Suffolk, and portions of the CT coast Friday.



## Main Points

Hazard		Impacts	Location	Timing
Heavy Wet Snow		<ul style="list-style-type: none"> <li>Snowfall of 3-8" (Orange) and 2-3" (Passaic) expected. Areas over 1000 ft. elevation are most at risk. Hazardous travel possible.</li> </ul>	Orange County, NY and Western Passaic County, NJ	This evening into Friday Morning.
Strong Winds		<ul style="list-style-type: none"> <li>25 to 35 MPH with gusts to 45 to 50 mph.</li> </ul>	NYC Metro, LI, Coastal CT and Westchester	Friday morning into Friday afternoon.
Heavy Rain		<ul style="list-style-type: none"> <li>1.0"-2.0" of rainfall expected. Urban and poor drainage flooding possible.</li> </ul>	Entire Tri-State Region	This evening into Friday.
Marine		East wind gusts up to 40KT. Seas of 8-13 ft on the Ocean and 5-7 ft on LI Sound.	NY Harbor, Long Island Sound and All Nearshore ocean waters.	This evening through Friday Afternoon.
Coastal Impacts		Minor coastal flooding. Inundation of 0.5 to 1.0 ft above ground in vulnerable areas. Scattered areas of dune erosion possible.	Highest threat for oceanfront and vulnerable locales along S and E Bays of LI, and W LI Sound	Times of high tide through Friday PM.

# Snow / Heavy Wet Snow

## Hazards and Impacts:

### **Locations – Orange County, NY**

- ✓ **Winter Weather Advisory: now – 10am Fri**
- ✓ **Snow Accum: 3-8"** / locally higher amounts possible
- ✓ **A warning level snowfall** is possible (>6") mainly north and west of I-84 from Port Jervis to Montgomery.
- ✓ **Snowfall rates: Up to 1"/hr possible**
- ✓ **Snow Character: Wet**

### **Locations – Western Passaic, NJ**

- ✓ **Winter Weather Advisory: now – 1am Fri**
- ✓ **Snow Accum: 2-3"**
- ✓ **Highest totals expected** along the far western border with Sussex County.
- ✓ **Snow Character: Wet**

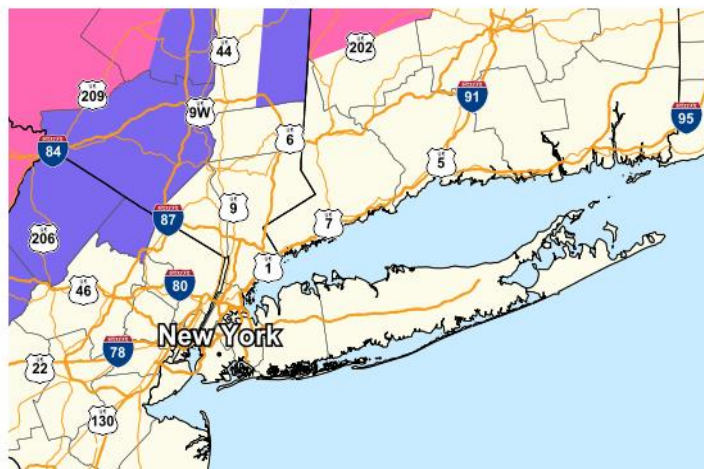
### **Impacts:**

- ✓ Difficult travel especially higher elevations.
- ✓ Scattered downed tree limbs and power lines.

### **Timing:**

- ✓ Heaviest snow from 8pm tonight through 2am Friday.

## Winter Watches Warnings and Advisories



Graphic Created  
December 15th, 2022  
7:35 PM CST

## **Forecast Challenges:**

There is some uncertainty on the eastern extent and duration of moderate and heavy snow banding late tonight into Friday for Orange County. Higher snowfall amounts are possible across western Orange county.



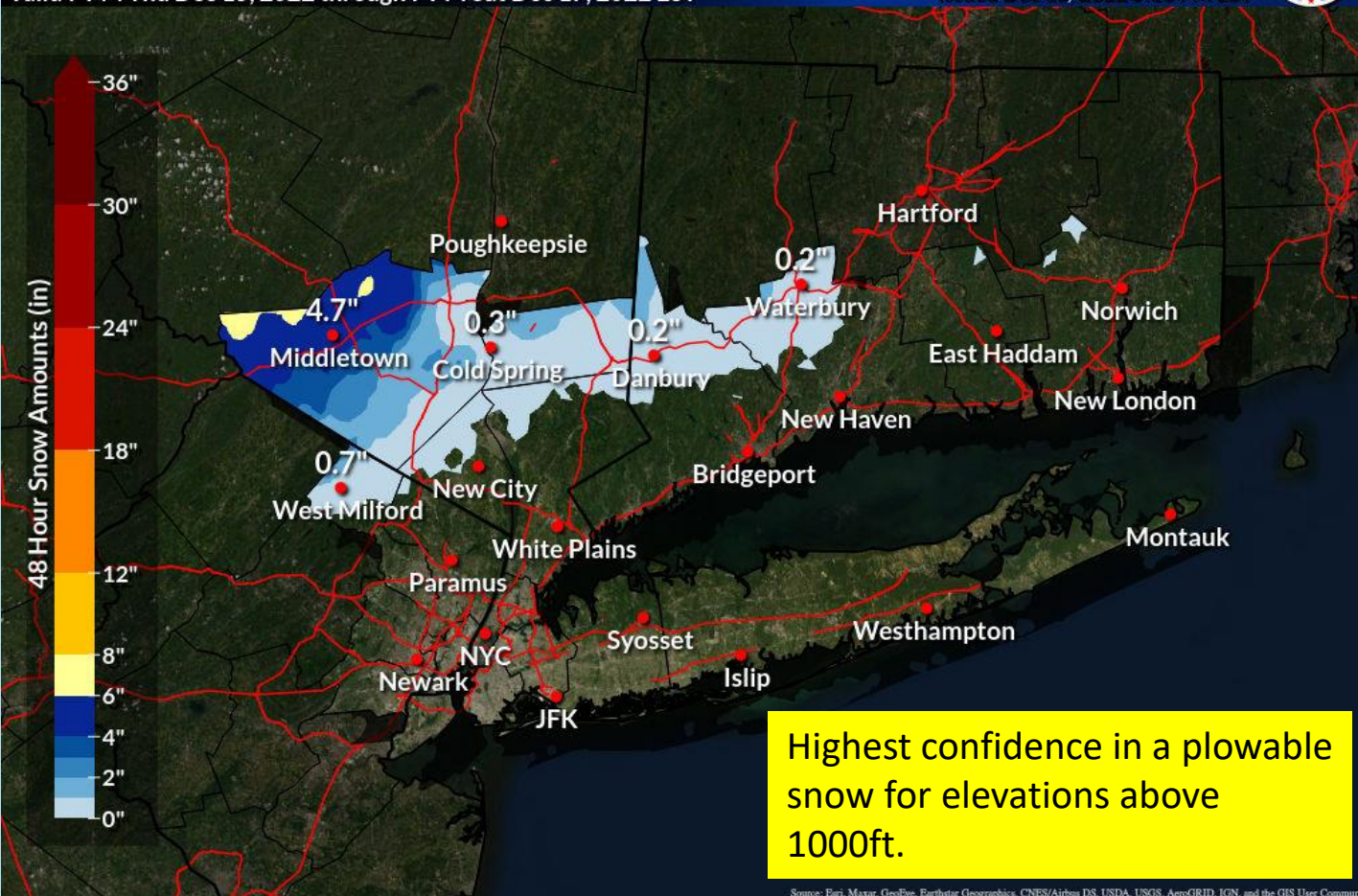
# Most Likely Snowfall – Official Forecast

## Expected Snowfall - Official NWS Forecast

Weather Forecast Office  
New York, NY

Valid 7 PM Thu Dec 15, 2022 through 7 PM Sat Dec 17, 2022 EST

Issued Dec 15, 2022 5:13 PM EST



Highest confidence in a plowable snow for elevations above 1000ft.

Source: Biri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NWSNewYorkNY

[weather.gov/nyc](https://weather.gov/nyc)



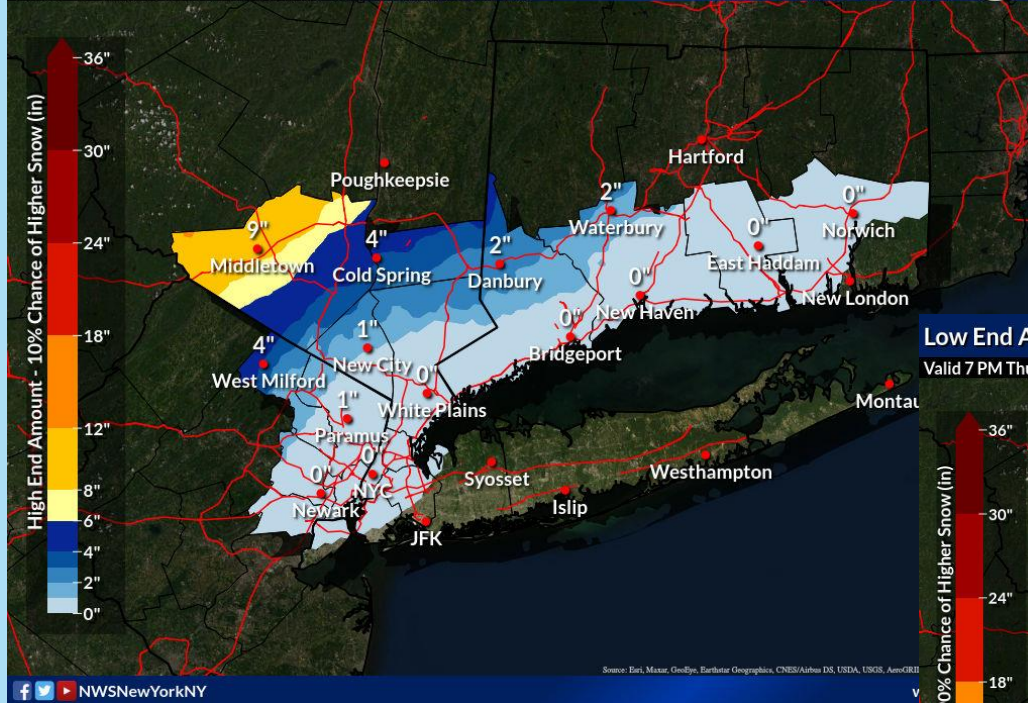
# Probabilistic Snowfall Forecast

## High End Amount - 1 in 10 Chance (10%) Of Higher Snowfall

Valid 7 PM Thu Dec 15, 2022 through 7 PM Sat Dec 17, 2022 EST

Weather Forecast Office  
New York, NY

Issued Dec 15, 2022 5:13 PM EST



Snow amounts could be close to these levels if transition to rain on Friday morning is slower than currently forecast.

## Low End Amount - 9 in 10 Chance (90%) Of Higher Snowfall

Valid 7 PM Thu Dec 15, 2022 through 7 PM Sat Dec 17, 2022 EST

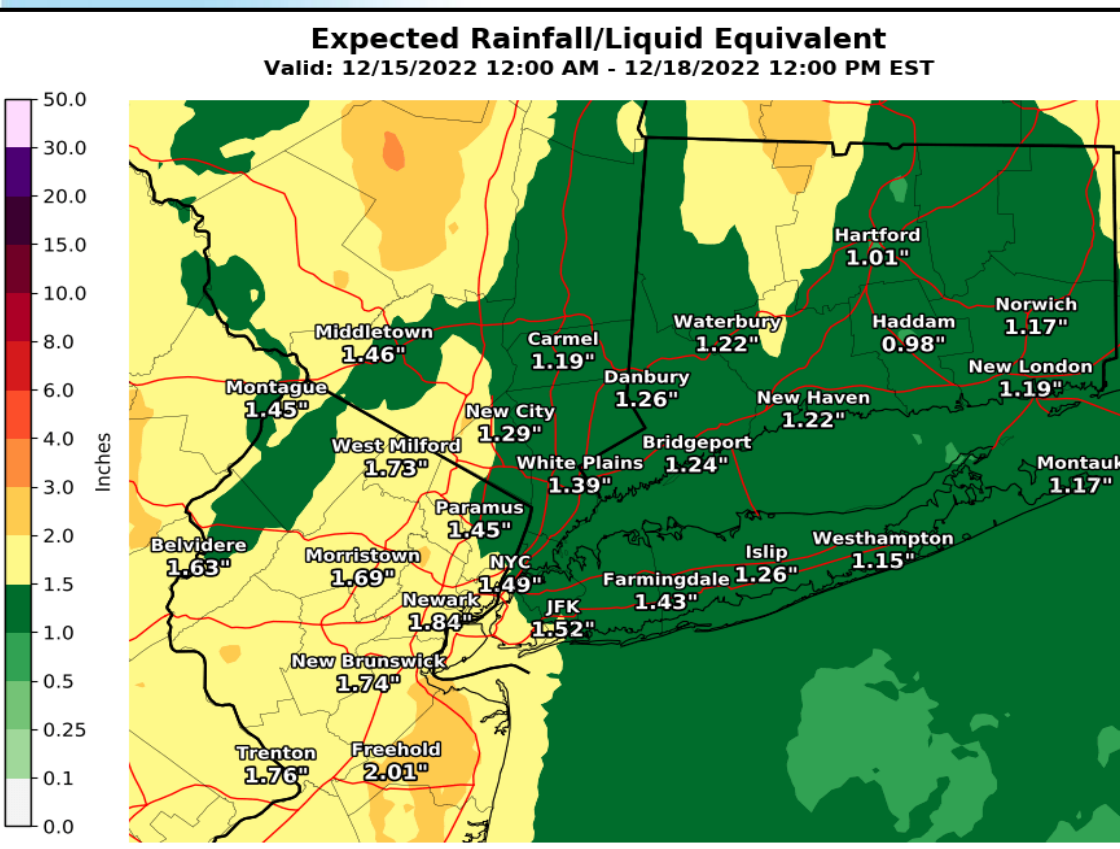
Weather Forecast Office  
New York, NY

Issued Dec 15, 2022 5:13 PM EST



Expect at least this much snow.

## Heavy Rain



### Hazards:

- ✓ Rainfall of 1.0 to 2.0 inches across the entire Tri State.
- ✓ Rainfall rates of 0.25 to 0.5"/hr

### Impacts –

- ✓ Localized minor flooding possible.
- ✓ Urban and poor drainage areas most likely impacted.

### Timing:

- ✓ Heaviest rain from 8pm tonight through 8am Friday.

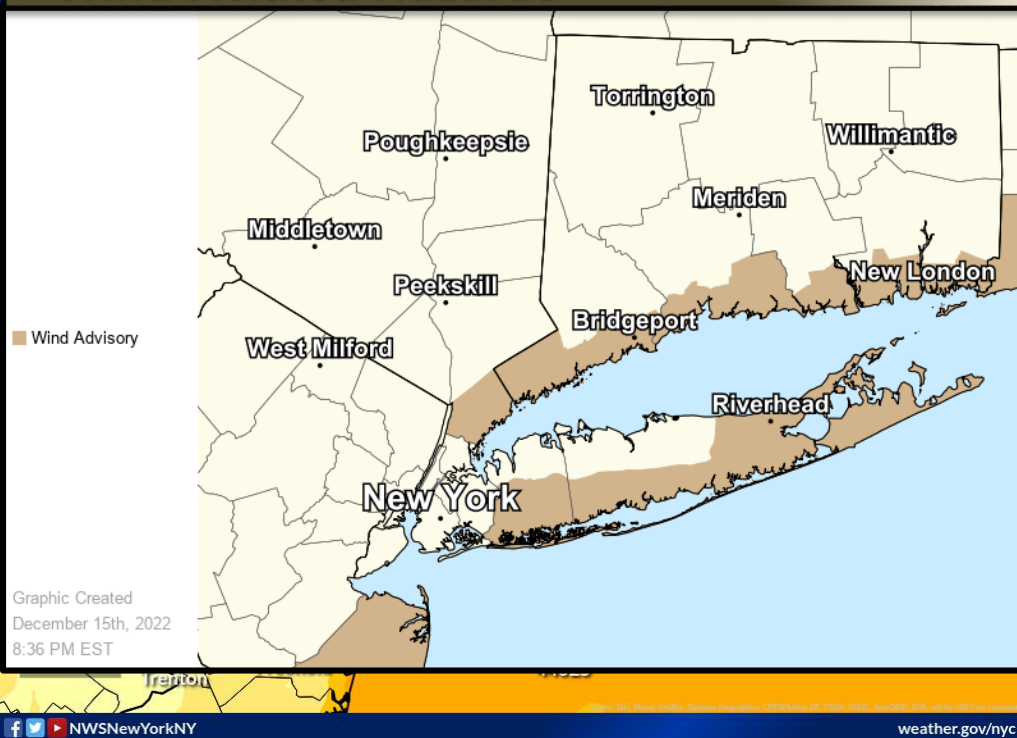
### Forecast Challenges:

Confidence is increasing in forecast rainfall amounts. Localized flood impacts may be locally enhanced due to poor drainage.



# Strong/Damaging Winds

## Wind Related Hazards



## Hazards and Impacts:

**Wind advisories for eastern and southern Long Island, coastal CT, and southern Westchester**

- ✓ **Peak Winds:** East winds of 25 to 35 mph with gusts 45 to 50 mph, across Long Island and Southern CT.
- ✓ **Timing:** 4am to 6pm Friday.
- ✓ **Impacts:** Scattered downed tree limbs and power lines are possible in these areas.
- ✓ Any unsecured objects (outdoor decorations) may be blown around.
- ✓ Strongest winds from 2am Friday through 6pm Friday.

## Forecast Challenges:

Confidence is increasing in these winds occurring, but wind/gust speeds could increase or decrease by 5-10 mph or so based on storm track and intensity.

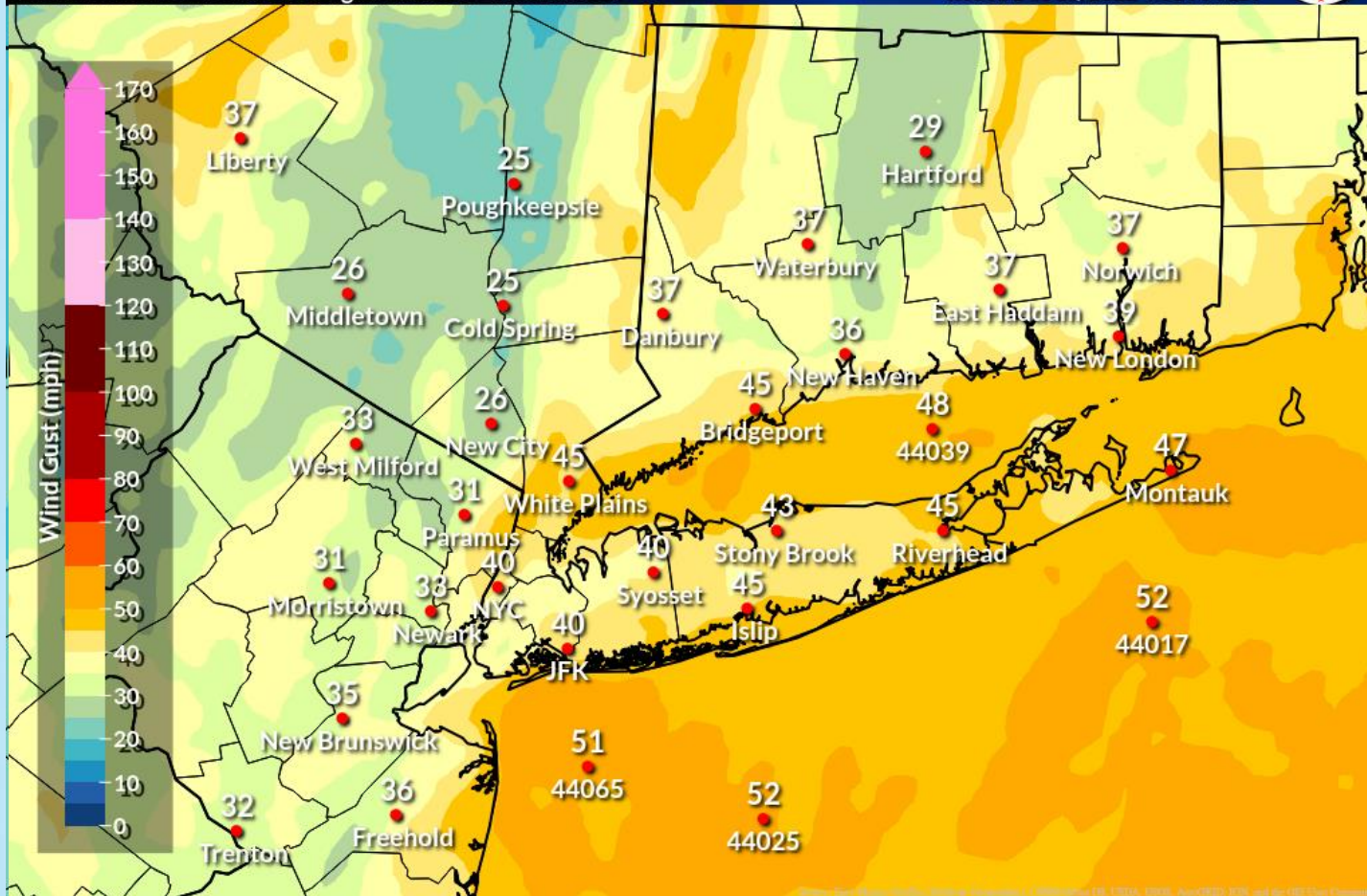
## Strong/Damaging Winds

### Friday's Maximum Wind Gusts

Valid Fri Dec 16 7:00AM through Sat Dec 17 7:00AM EST

Weather Forecast Office  
New York, NY

Issued Dec 15, 2022 4:31 PM EST



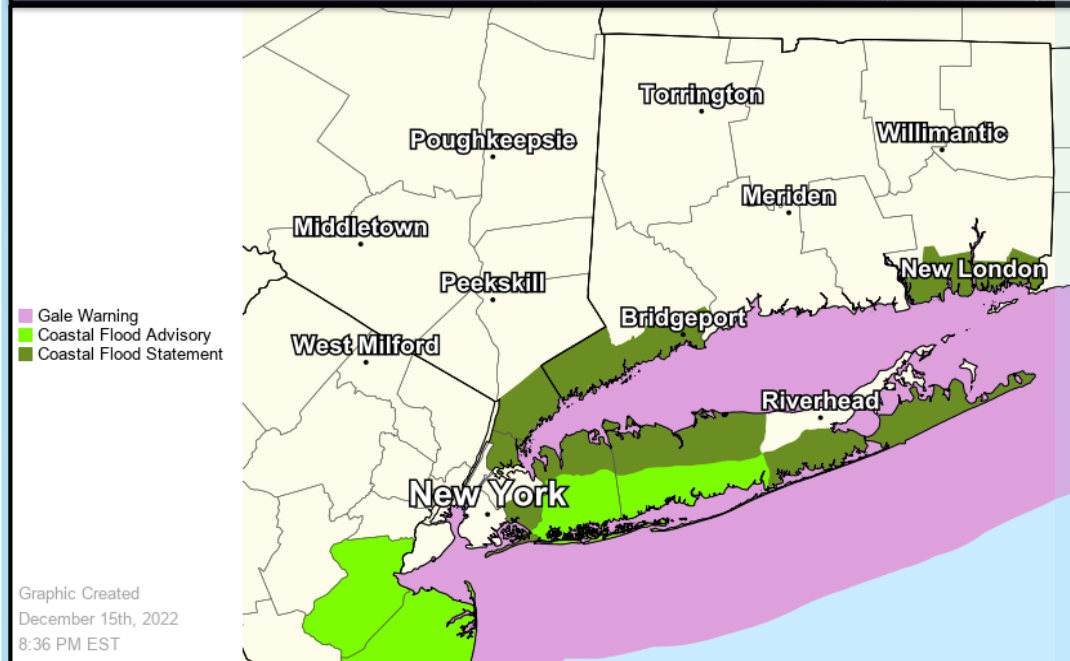
NWSNewYorkNY

[weather.gov/nyc](https://weather.gov/nyc)



# Coastal Flooding

## Marine / Coastal Hazards



For the latest coastal flood forecasts (hydrographs and tables) and the tools to visualize the potential coastal impacts (zoomable potential inundation map, impact catalogs, climatology, etc.) in your area of concern please go to the [NWS New York, NY Coastal Flooding Page](#)

## Coastal Flood Hazards and Impacts:

- ✓ Minor coastal flooding overnight and Friday afternoon. Pockets of moderate coastal flooding is expected in So. Nassau and SW Suffolk overnight and on Friday.
- ✓ Inundation of 0.5 to 1.0 ft. above ground in vulnerable locations of SW Suffolk and So. Nassau, and up to 0.5 ft. for the remaining bays of LI, and W LI Sound through Friday.

## Shoreline Hazards and Impacts:

- ✓ 2-4 ft. of breaking waves along the oceanfront today, increasing to 4 to 8' on Friday.
- ✓ Localized dune erosion possible during Friday afternoon.

## Timing:

- ✓ During times of high tide overnight / early Friday morning and Friday afternoon.

## Event Summary

### **A coastal low pressure will affect the region through Friday.**

- ✓ A period heavy wet snow is likely for far western portions of Orange and Western Passaic Counties. Higher snowfall amounts are possible especially across higher elevation (1000 ft.) areas in Orange County. Winter weather advisories are in effect for these locations.
- ✓ Heavy rainfall for much of the rest of the Tri State may lead to local urban and poor drainage flooding early Friday.
- ✓ A period of easterly wind gusts of 30-35 mph, with gusts up to 50 mph over coastal areas and the waters late tonight into Friday morning. Wind advisories are in effect for eastern and southern Long Island as well as coastal CT and southern Westchester on Friday.
- ✓ Pockets of minor coastal flooding along the south shore bays of LI overnight, and isolated minor coastal flooding for western Long Island Sound overnight. Widespread minor coastal flooding along the So. Nassau bays, and potentially SW Suffolk Friday, with isolated minor coastal flooding for the remaining southern bays of LI and portions of Coastal CT Friday.